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User's Manual

Setup and Compilation

1.) Download and unzip the file from Github.

2.) The submission includes:

- main.cpp
- generatePassword.hpp
- generatePassowrd.cpp
- encryption.hpp
- encryption.cpp
- hashNode.hpp
- hashNode.cpp
- hashTable.hpp
- hashTable.cpp
- testProgram.hpp
- testProgram.cpp
- lastNames.txt (Last Names file for UserIds)
- raw.txt
- encryption.txt
- hashTableData.txt
- UsersManual.docx (this file)
- UML-Diagram.docx

3.) Environment: This program has been tested in the multi-platform lab and will run there.

4.) Compiling. This program includes a Makefile. At the command line in Linux, type make clean main. The program produces an executable entitled main.

Running the program: Be sure lastNames.txt is in the same directory as the executable. Issue the command **./main** No command line arguments are required or checked.

User input: No user interaction with the program is required.

Output: Testing output goes to the console.

Output will be similar to this:

TESTING LEGAL PASSWORDS

1.] User ID: SMITH Password: oirmdrqep

User ID: SMITH with Encrypted Password xweqvaert Found at Bucket 27213

The Password: oirmdrqep is Encrypted into xweqvaert Which Matches the Encrypted Password in the Hash Table xweqvaert

Etc.

TESTING ILLEGAL PASSWORDS

1.] User ID: SMITH Password: oirmdrqep

User ID: SMITH with Encrypted Password xweqvaert Found at Bucket 27213

The Passowrd: airmdrqep is Encrypted into jweqvaert Which Does NOT Match the Encrypted Password in the Hash Table: xweqvaert

Etc.

Output: Hash Table Output goes to a file called HashTableData.txt which writes entire hash table into the file.